ASSOCIATE IN SCIENCE  

AUTOMOTIVE TECHNOLOGY, DRIVETRAIN & CHASSIS

This course of study provides significant training and applicable skills development for future employment as automotive service technicians. Topics include: brakes, transmission, drivetrain, air conditioning, suspension, steering, and body chassis electrical systems. Students will acquire and demonstrate skills using classroom, lab, and on-line vehicle diagnostic/repair simulations using specialized test equipment and service literature that is consistent with industry practices. Students will also execute safe, proper, and ethical work practices. Students must complete each major requirement course and major elective course with a grade of “C” or better.

Program Learning Outcomes:

- Demonstrate a global understanding of various automotive systems and the ability to discern complaint, cause, and correction of complex and interrelated symptoms.
- Demonstrate the ability to diagnose, inspect, measure, and repair transmission, drivetrain, AC, brake and suspension systems in a competent and professional manner.
- Apply basic electrical principles to the repair of Chassis and Drivetrain systems.
- Execute safe, proper, and ethical work practices.

AUTO 102   Automotive Systems         3.5
AUTO 103   Light Line Technician      2.0
AUTO 105   Suspension, Steering, and Alignment 3.0
AUTO 106   Automotive Brake Systems   2.0
AUTO 119   Introduction to Engine Performance 2.5
AUTO 120   Automatic Transmission Systems 2.5
AUTO 121   Manual Transmission Systems 2.0
AUTO 135   Air Conditioning Systems   2.0
AUTO 170   Electrical Systems         3.0
AUTO 171   Engine Systems             2.5
AUTO 172   Chassis and Drivetrain Systems 2.5
AUTO 173   Automotive Service Operations 2.0
AUTO 174   Body & Chassis Electronics 2.0

Major Units 31.5
Major Electives (Any Auto course not listed above) 5.0
General Education Requirements 24.0
Total Units 60.5